

Books of the Week

For the editorial information of our readers, books received for review since last week's issue are listed. For convenient purchase of any U. S. book in print, send a remittance to cover retail price (postage will be paid) to Book Department, Science Service, 1719 N Street, N.W., Washington 6, D. C. Request free publications direct from publisher, not from Science Service.

ANNUAL REPORT OF THE NATIONAL TUBERCULOSIS ASSOCIATION, April 1, 1953 to March 31, 1954—James E. Perkins, Managing Director—*National Tuberculosis Association*, 56 p., paper, free upon request direct to publisher, 1790 Broadway, New York 19, N. Y. Commemorating half a century of organized nationwide action against a dread disease. Deathrate has been reduced from 188 per 100,000 in 1904 to only about 16 per 100,000.

CHEMICAL PATHWAYS OF METABOLISM, Volume I—David M. Greenberg, Ed.—*Academic*, 460 p., illus., \$11.00. A survey of existing knowledge of the metabolism of major constituents of living organisms. Each chapter is by an individual actively working in the field.

CORONARY HEART DISEASE IN YOUNG ADULTS: A Multidisciplinary Study—Menard M. Gertler, Paul D. White and others—*Commonwealth Fund - Harvard University Press*, 218 p., illus., \$5.00. Reporting findings of a three-year research program at Massachusetts General Hospital from which it is hoped that it may be possible in future to identify coronary-prone individuals with a view to preventing development of the disease.

DOCUMENTS ON GERMAN FOREIGN POLICY 1918-1945, Volume VIII, The War Years, September 4, 1939-March 18, 1940—Paul R. Sweet, Margaret Lambert and Maurice Baumont, Eds. in Chief—*Gout. Printing Office*, Department of State Publication 5436, 974 p., illus., \$4.00. Documents from captured archives of the German Foreign Ministry and the Reich Chancellery.

Gmelins Handbuch der Anorganischen Chemie: Schwefel Teil A System-Nummer 9—Gmelin Institute—*Verlag Chemie*, 8th ed., 252 p., illus., paper, \$34.00. Devoted to the physics and chemistry of elemental sulfur.

HANDBOOK OF FOOD PREPARATION — Terminology Committee of the Food and Nutrition

Division, American Home Economics Association — *American Home Economics Association*, 66 p., paper, 50 cents. A handy reference book for homemakers, students and all who deal with foods. Contains tables of weights and measures, cooking timetables, definitions and information about food properties.

INTRODUCTION TO MATHEMATICAL STATISTICS—Paul G. Hoel—*Wiley*, 2d ed., 331 p., illus., \$5.00. Growing out of the author's course for junior and senior science majors.

MARINE POLYCHAETE WORMS FROM POINT BARROW, ALASKA, WITH ADDITIONAL RECORDS FROM THE NORTH ATLANTIC AND NORTH PACIFIC—Marian H. Pettibone—*Smithsonian*, 154 p., illus., paper, free upon request direct to publisher, Washington 25, D. C. Based on material collected in 1948, 1949 and 1950 by G. E. MacGinitie of the Arctic Research Laboratory.

MONOMOLECULAR LAYERS — Harry Sobotka, Ed.—*American Association for the Advancement of Science*, 207 p., illus., \$4.25. Papers, presented at a symposium of the AAAS on Dec. 27, 1951, which give a cross section of recent progress in the field.

NEW FIBRES FROM PROTEINS—Robert Louis Wormell—*Academic*, 208 p., illus., \$5.80. Putting forth a generalization of the "corpuscular theory" which, it is believed, may remove some of the confusion on protein fiber behavior.

PLATO'S MATHEMATICAL IMAGINATION: The Mathematical Passages in the Dialogues and Their Interpretation—Robert S. Brumbaugh—*Indiana University Press*, 302 p., illus., paper, \$7.50, cloth \$8.00. Advancing the theory that "mathematical" passages in Plato which have seemed nonsense or riddles to previous students in fact describe diagrams which Plato had designed. They illustrate and clarify the text of *Timaeus* and *Republic*.

PRODUCTION OF NATURAL GAS SUBSTITUTES BY PRESSURE HYDROGASIFICATION OF OILS—H.

R. Linden, J. J. Guyer and E. S. Pettyjohn — *Institute of Gas Technology*, Interim report sponsored by the Gas Production Research Committee, 35 p., illus., paper, \$2.50. In laboratory tests and in pilot plant tests, it has been possible to attain complete gasification of light distillates to make a substitute for natural gas.

THE ROLE OF COMPANY STANDARDS IN INDUSTRIAL ADMINISTRATION—Dickson Reck—*Mellon Institute*, 5 p., illus., paper, free upon request direct to publisher, 4400 Fifth Ave., Pittsburgh 13, Pa. Discussing standardization and its problems.

SURVEY AND TREATMENT OF MARSH DEPOSITS—Fred Burggraf and W. J. Miller, Eds.—*National Academy of Sciences—National Research Council*, Highway Research Board Bibliography 15, 95 p., paper, \$1.20. Making the experience of others more easily available to the student and practicing engineer.

TODAY'S REVOLUTION IN WEATHER — William J. Baxter—*International Economic Research Bureau*, 131 p., illus., paper \$1.00, cloth \$3.00. Intended to give you an idea of what changes in climate are doing among other things, to real estate values in California and Florida and to the water supply in Texas.

UNDERWATER PHOTOGRAPHY—Hilbert Schenck Jr., and Henry Kendall—*Cornell Maritime Press*, 110 p., illus., \$3.00. A practical book for amateurs and others concerned with the problem of taking pictures through water.

WHY WE BECOME DOCTORS—Noah D. Fabricant, Ed.—*Grune & Stratton*, 182 p., \$3.75. These medical autobiographies show that doctors are led into medicine partly by chance. W. Somerset Maugham, better known as a story teller than as physician, says that the medical profession is the best training for a writer. Hans Zinsser, by contrast, went into medicine because he doubted his talent at writing.

WIDE RIVER—Dorothy Childs Hogner—*Lippincott*, 64 p., illus., \$2.00. A story for little children about "Little Chipmunk" and his difficulties with a wet spring.

WORLD GEOGRAPHY: An Introduction—Loyal Durand, Jr.—*Holt*, 372 p., illus., \$5.25. Dealing not only with the elements of the natural landscape but also cultural elements—man's stage of civilization.

Science News Letter, July 10, 1954

How to Be Incredibly Cool This Summer

Arthur Carson's *How to Keep Cool* describes practically every fast, low cost, scientifically right way known so you can cool off fast, and stay cool all summer long. With this book to guide you, there's simply no excuse any longer for sleepless nights or nerve-wracked days when you just can't bear the heat any longer.

Whole sections of this 50,000 word book tell you how to get the benefits of air conditioning without all the cost. Now, for perhaps the first time in your life, you learn the scientific ways to cool a single room or an entire house with low cost electric fans. (From now on, forget your old belief that fans are good only to chill you and give you a bad cold and a stiff neck.)

There's full information on the many easy, inexpensive, practical things you can do inside and outside your home to bring sea breeze comfort without drafts. Now a \$15 job in your insulation-less attic can change your bedroom from an oven to

an airy, comfortable place on the hottest nights. Why Venetian blinds offer little practical protection from the heat and what is much, much cooler. You learn how to get the last bit of use out of attic fans, dehumidifiers, the new low cost evaporative coolers (much less expensive than air conditioners and better if you live in the right part of the U. S. for their use), the different kinds of air conditioners, and how to make a low cost installation do the job of a more expensive one.

For your personal comfort, you get the answers to the questions you've been asking for years. Which is better—a cold shower or a warm bath? (You think you know that one? Better read what the scientists have to say. The right answer will be a blessing when you come in out of a hot street this summer.) When the thermometer is climbing, is it really dangerous to drink ice water? Is hot coffee or hot soup wiser? Look at the Arab with all his heavy clothing and ask, "Is it true that the fewer, lighter-weight clothes you wear, the cooler you are?"

This summer, be cool on the hottest days. *How to Keep Cool* costs only \$1—how small a sum that is on a day when you'd give anything to get cool! So order it now.

Print name & address, tear out ad, and mail with \$1 to HARIAN PUBLICATIONS, 14 SCRANTON AVE., GREENLAWN (LONG ISLAND), N. Y.

Don't spend one cent on an air-conditioner until you know how large a unit you really need! Too small a unit won't give you the comfort you wish. Too large a unit means spending unnecessary money. *How to Keep Cool* tells you exactly the size unit you need for your own home or office—or whether you need one at all.

ENGINEERING

Atomic Sub Outdoes Soviet A-Plant

► ANNOUNCEMENT BY the U.S.S.R. that a 5,000 kilowatt atomic power plant is operating will create little excitement in this country. (See p. 29.)

The Atomic Energy Commission has a large five-year atomic power program underway. There is no question about the feasibility of an atomic power plant for electrical generation. There has been no rush to build such power plants because atomic electricity would cost more than power from coal.

At least one power plant using fissionable material has proved itself and that is undoubtedly a couple of times bigger than the Soviet plant. This submarine engine prototype built and tested in Idaho has been running for some time. It does not produce electricity primarily, but is an atom-fired steam plant such as will be installed in the *Nautilus*.

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